



# Pall GeneDisc® Technologies

For easy, rapid and specific detection of *Campylobacter* for the poultry industry

*Campylobacter* is a pathogen that can cause an illness called campylobacteriosis, the leading cause of gastroenteritis in the world. The highest occurrence is detected in chicken meat (37.5%) and turkey meat (28.2%).

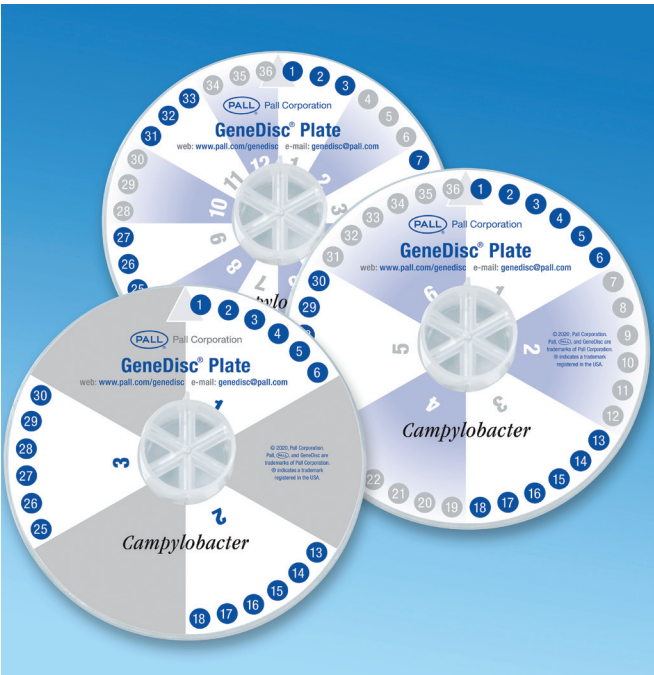
In response to industry concerns, Pall GeneDisc Technologies provide an ideal solution for food processors in need of a reliable control of *Campylobacter* associated risks.

## GeneDisc System Benefits

- Rapid** — While culture methods require up to 5 days to obtain results, Pall’s GeneDisc method reduces time to results by 50% for detection and 90% for quantification.
- Flexible** — With one product, qualitative and quantitative tests can be carried out to guarantee either absence of *Campylobacter* or a threshold at 1,000 CFU/g.
- Easy to use** — Matrix specific protocols are designed for routine use and validated from sample to result.
- High throughput capability** — Simultaneous DNA extractions from one single sample to 96 samples in less than one hour.
- Modular** — System modularity fits your throughput needs: from 3 to up to 96 samples can be simultaneously analyzed.

## A Solution Designed for Food Industries

- In line with MLG 41.04** AOAC certified methods.
- In line with ISO 10272** certified methods.
- Test multiple pathogens simultaneously** — Analysis of *Salmonella* with *Campylobacter* is available and does not require any additional hands-on time.
- Evaluate product rapidly** — Dedicated application enables industries to guarantee the absence in 25 g of raw or processed meat, 30 mL of poultry carcass rinse, or environmental samples with a time to result in as little as 22 hours.



## Campylobacter Identity Card

Bacteria	Gram –, S-shaped motile proteobacteria
Food Vehicle	Large variety of food, especially poultry products like chicken or turkey meat and eggs.
Disease	Zoonosis (Campylobacteriosis)
Number of Cases	EFSA reported 246,000 human cases annually detected and 9,000,000 human cases estimated. CDC estimated 1.5 million illnesses each year in the United States.  WHO reported 96 million cases. The risk of infection is highest in travelers to Africa and South America, especially to areas with poor restaurant hygiene and inadequate sanitation.

## How the System Works



## Technical Information

Total Turnaround Time	22 hours for detection 2h 30 for quantification
PCR Cycle Time	1 hour
Limit of Detection	5 GU/PCR well
Sample Size for Quantification	Entire poultry carcass 10 g or 25 g of raw products 1 sponge or 1 wipe for environmental samples
Quantification Range	< 1,000 CFU per g of sample or > 1,000 CFU per g of sample
PCR Efficiency (e)	75% < e < 125%
Optimal Recovery	> 50%
Specificity	Wide range of strains tested for inclusivity and exclusivity
Internal Inhibition Control Per Sample Analysis	Detects presence of inhibitors in DNA extract sample

## Ordering Information

Part Number	Description	Samples/pack
<b>Equipment</b>		
EGDCV3A	GeneDisc Cyclor Base Unit	—
EGDSV3A	GeneDisc Cyclor Sub Unit	—
EGDBH48230 (EU)	GeneDisc DryBlock Heater 48	—
EGDBH48120 (US)		
EGDBH96230 (EU)	GeneDisc DryBlock Heater 96	—
EGDBH96120 (US)		
<b>Consumables</b>		
PFOOD1100	Extraction Pack Food 01	100
PFOOD2096	Extraction Pack Food 02	96
GCAMPYL103012	GeneDisc Plate <i>Campylobacter</i>	36
GCAMPYL106006		36
GCAMPYL112006		72
GCAMPSL103012	GeneDisc Plate <i>Campylobacter</i> & <i>Salmonella</i> v2	36
GCAMPSL106006		36
GCAMPSL112006		72

We also offer a full product range for pathogen detection in food and for spoilage organisms in beverages.

Quantitative tests in water for pathogens (*Legionella*) and hygienic indicators (*E. coli*, *Enterococcus*) are also available.

For more information including part numbers please contact us.



Pall Corporation

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Please contact Pall Corporation to verify that the product conforms to your national legislation and/or regional regulatory requirements for water and food contact use.

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